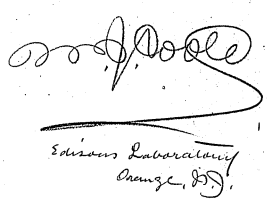
Notebook, N-94-12-11

The one dated entry in this notebook is from December 1894. The first page bears the inscription: "Mr. J. Coote Edisons Laboratory Orange, N.J. Dec 11th 94." All remaining entries are by Edison and pertain to squirted filament experiments, with notations for boxes numbered 1-20 and brass boxes numbered 1-8. Near the end of the book is a page entitled "Index," which has no apparent relation to the preceding entries. The front cover is labeled "Various Experiments By Mr J Coote." The pages are unnumbered, and several pages have been removed from the book. Approximately 35 pages have been used. Two loose pages of calculations have been inserted into the book.

N-94-12-11

XE-172



No 1. Box.

Contains Ayls file Cbzd in Hq about 700 called 2nd Cbzn because files only crack in flame & don't ox after pulling out as first Cbzn in Hq 7.10.

The above files were heated in an oven to 550 fahr & dropped Vertically in the oven into Carborite dissolved in Dieji —

Box No 2

1. 2nd Hq Cbgn Ttem files put in oven + when 430 dropped into Carbonate dus in Dispi

Box 3

Film Carbonized in Paraffine to 450 deg Fahr —

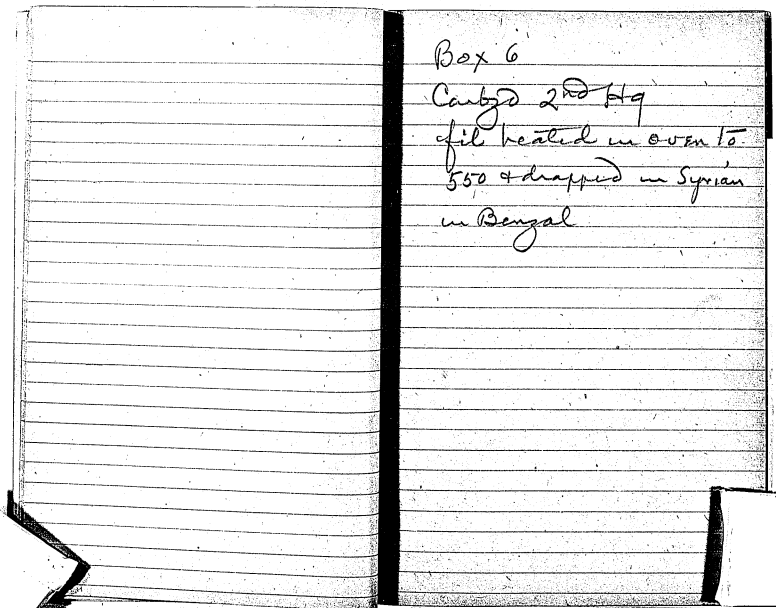
These film brought up in oven to 450 & dropped in Carbonite disc in Dipi

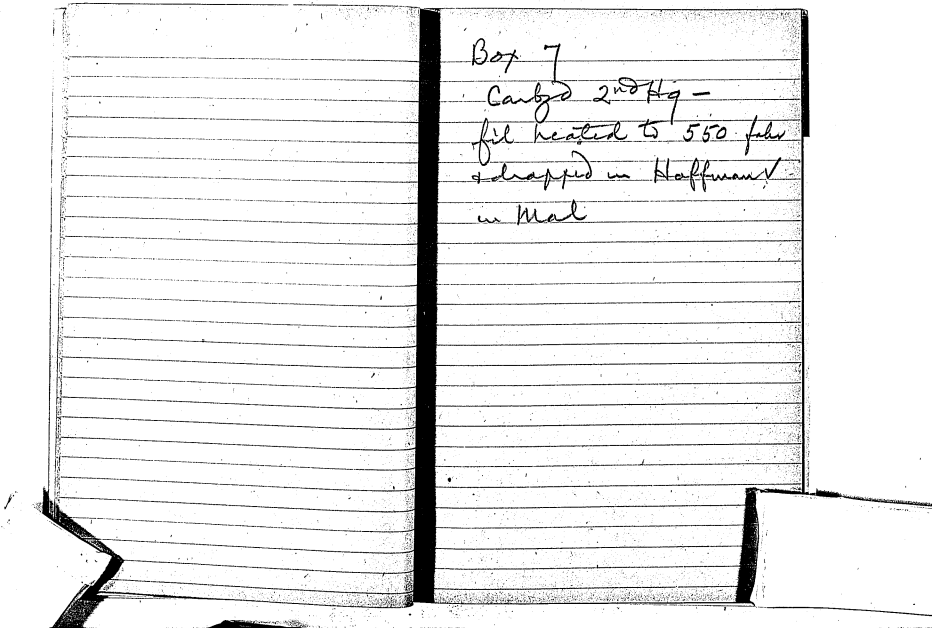
Box 4

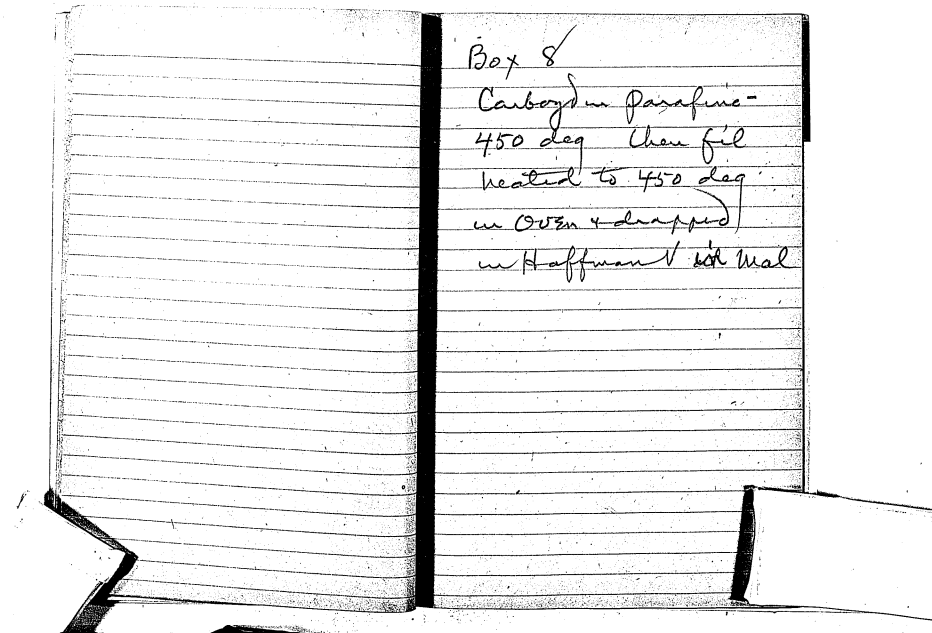
Carbon paraffins to 450 fahr.

These fahr. heated in oven to 450 & dropped in Syrian asphalt also in Benzol-

Box 5
Carbon 2nd Hq
file thenhealed to
450 + drapped in
Dejiram in Bengal.

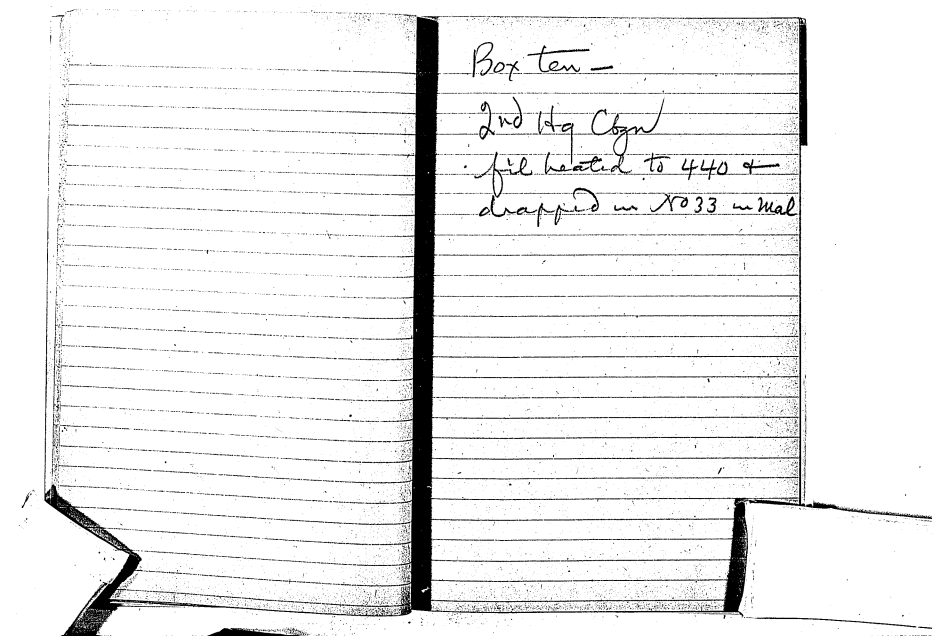

Box 6
Carbon 2nd Hq
file heated in oven to
550 + dropped in Syrian
in Benzol

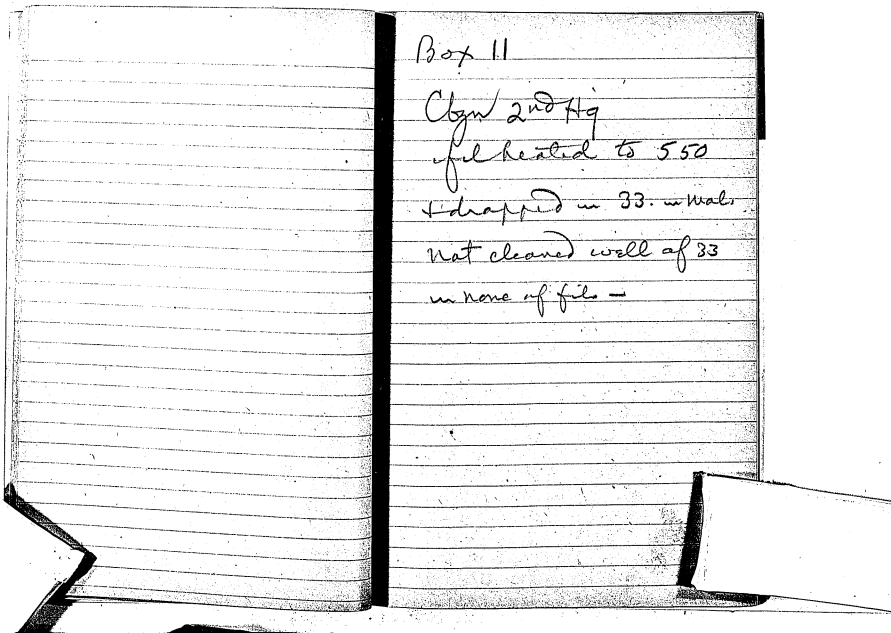

Box 7
Carbon 2nd Hq –
fil heated to 550 fahr
+ clapped in Hoffman V
in Mal

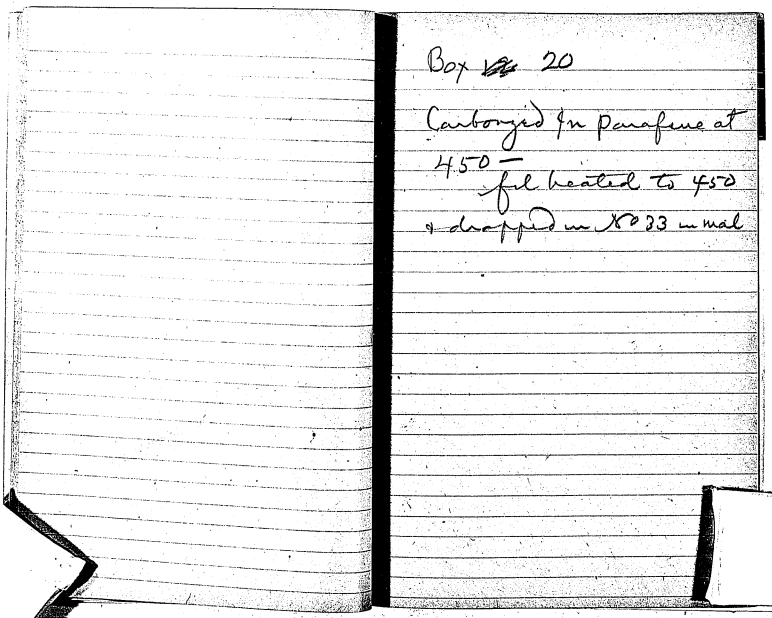

Box 8
Carboxylm paraffine -
450 deg then fil
heated to 450 deg
in Oven + dropped
in Hoffman V 6th Mal

Box 9.

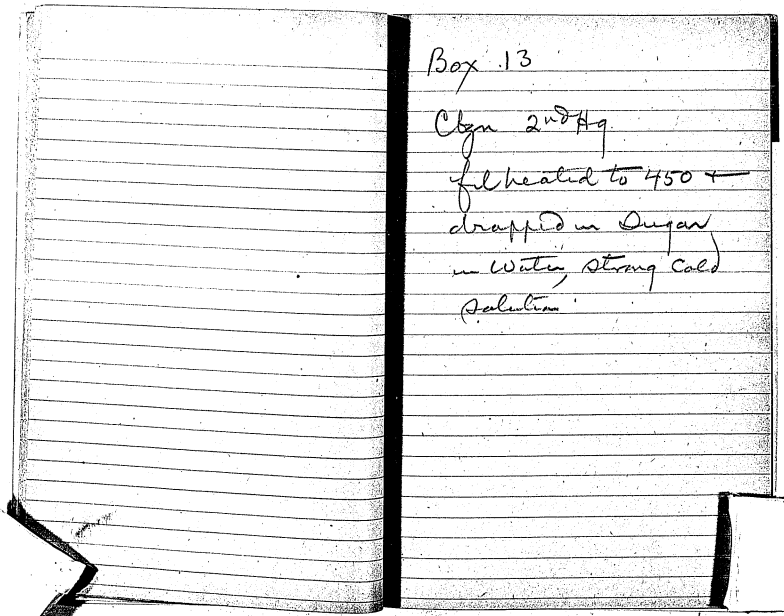
Cbgn 2nd Hq.
fol heated to 550 +
dropped in Haffman V
in Mal.

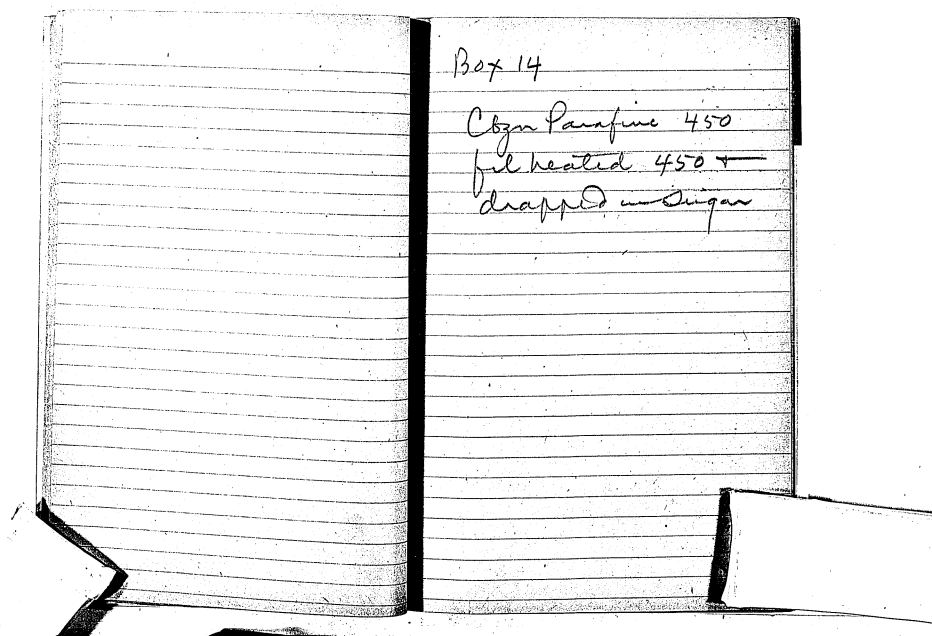

Box ten —
2nd Htq Cbgn
· fil heated to 440 +
dropped in X033 in Mal

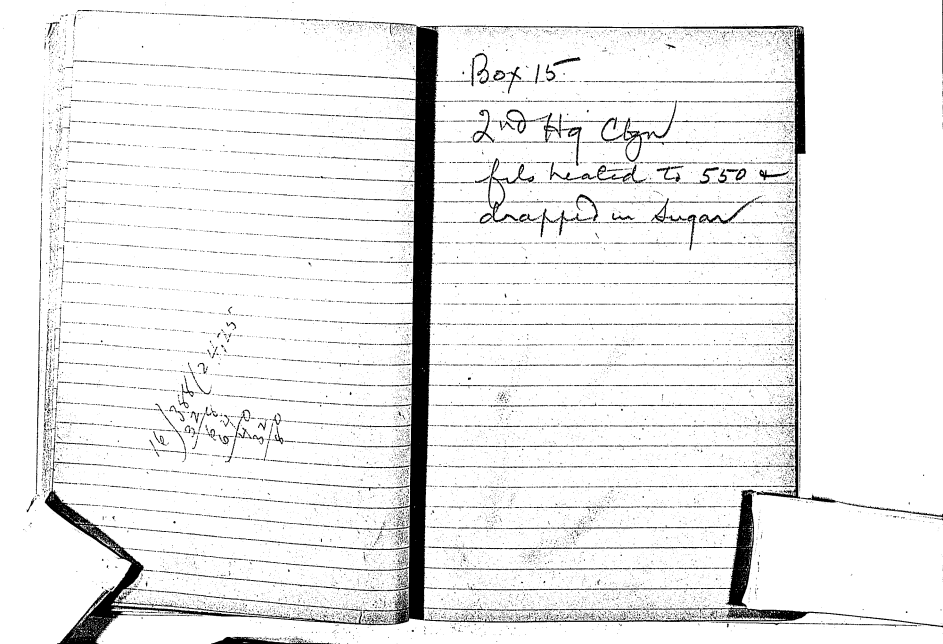

Box 11
Clgm 2nd Hq
file related to 5.50
+ dropped in 33. in Wab.
Not cleaned well of 33
in none of file —

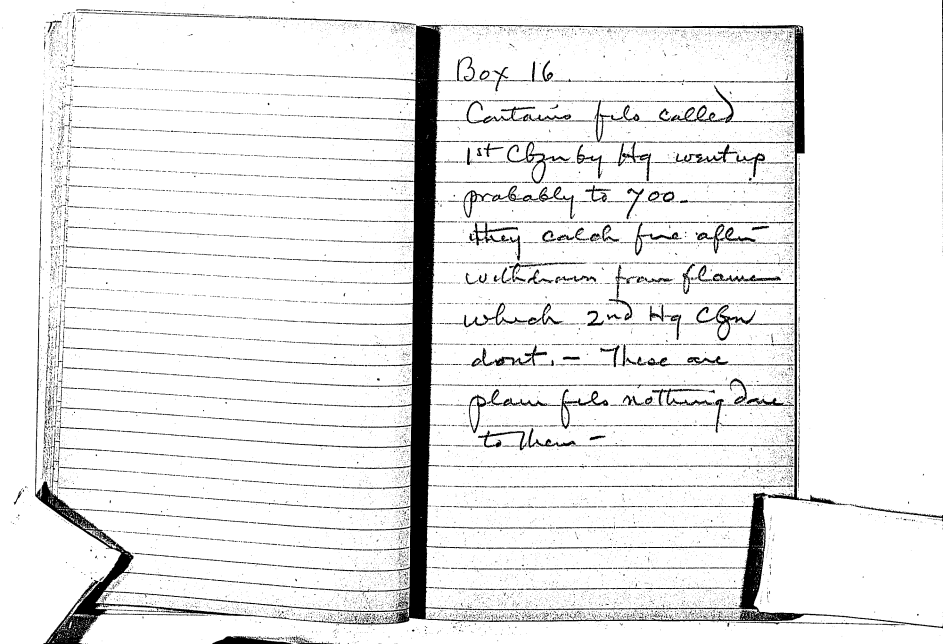

Box ~~18~~ 20

Carbonized in paraffine at 450° ~~for~~ ful heated to 450° & dropped in KOH 33 in mal


Box 13
Cbgn 2nd Hg
ft heated to 450 +
dropped in Sugar
in Water, strong Cold
Solution


Box 14
Cbzn Pawfine 450
fil heated 450 ↑
drapped in Sugar

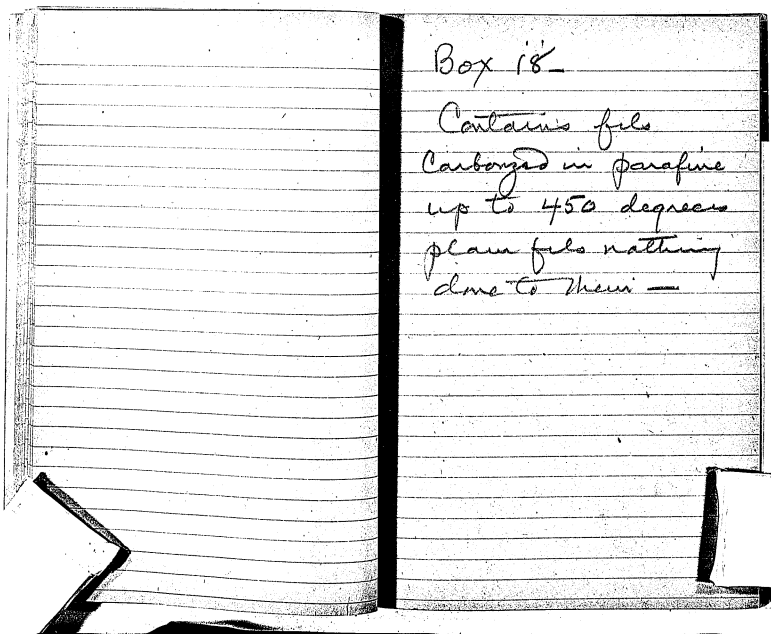

Box 15
2nd Hq Clgn
fuls heated to 550 +
dropped in sugar



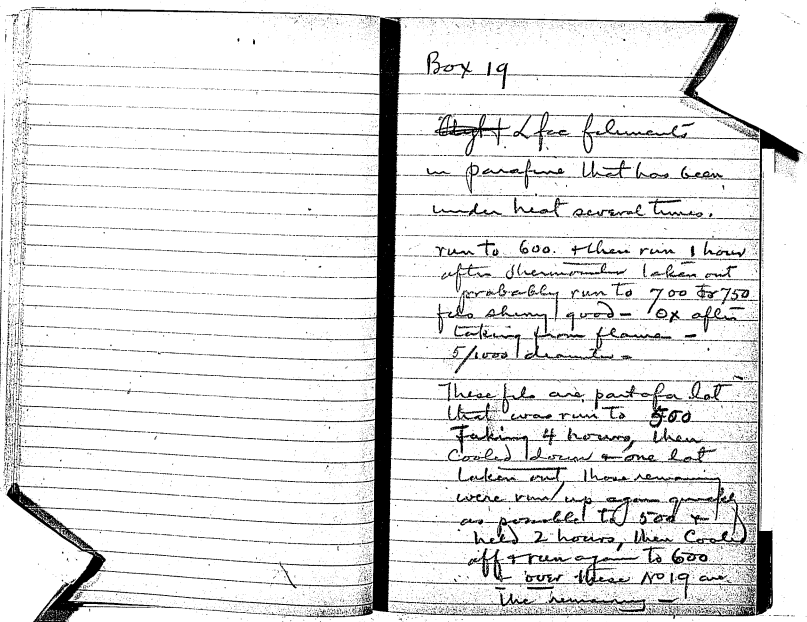
Box 16.
Contains fols called
1st Cbgn by Hq went up
probably to 700.
they catch fire after
withdrawn from flames
which 2nd Hq Cbgn
dont. — These are
plain fols nothing done
to them —

Box 17.

These files are 2nd Hg
Cbgn & went probably
to 750 @ 800. They
do not ex after Comm
out flame, buck
worm hole somewhat
plain file nothing
done to them —


Box 18

Contains fibs
Carbonized in paraffine
up to 450 degrees
plain fibs nothing
done to them —



Box 19

~~Light~~ 2 fee filament in paraffine that has been under heat several times.

run to 600. Then run 1 hours after thermometer taken out probably run to 700 to 750 fils shiny good - 10% after taking from frame - 5/1000 diameter -

These fils are part of a lot that was run to 500 taking 4 hours, then cooled down & one lot taken out, those remaining were run up again gradually as possible to 500 & held 2 hours, then cooled off & run up to 600 & over these No 19 are the remaining -

Brass Boxes Numbered 1 to 8

Box 1 - Brass -

No 1 Contains about 60 file Small dies, 3000 Cbt 5000 Crystals in Ether, shine good agate good no stick or clog, but there is Tendency to Long Crinkles. There are a number of 4/1000 specs along file - apparatus no proof - used steam on die body & jets for little while to heat Dies - These specs may be due to not stirring the Cbt in ether as I failed to do it. I divided the 3000 Cbt in two doses, this is second dose had ample for 6 or 8 Mounts Covered over with butter dish front closed would as we had two large dies -

Box 2.

3000 Cbt 500 Cry well mixed with ether enough Ether to make whole thing liquid — Mortar. Worked it till caked + semi Dry then washed out mortar + put it back + worked to dough and powder, was some slight excess in it. Steam around die after ½ minute short flame to heat die, Squeeze good, shiny but kinda crinkle at times. Smooth die. Put all the file from both batches in one box = There are specs an ounce of file but fine many not lubed, file dust Steam puff=

file microns 5 6/10/1000 average

Box 3

Mixed 6000 cbt 1000 Cuq + double quantity 20° Ether so as to make 4 changes for dissolved tendency to crinkle, only used 2 batches one Ethered away this is batch used, film looks crinkly + some specs + probably little puffs - but not very much puff, the puffs are only in little specs not general puff of whole filament,

Box 4

to 3000 Cst 700 Cresylic -
10 cc Ether - Mins cakes somewhat
in mortar, 9t crinkles on
reverse just as much heat
as 5000 Cresy - We concluded
that die construction or press
was rough so freddy repolished
them all & the next box
will we hope be better —

5 Box

3000 - 500 Coys

Squares have no knicks but very Crumby - dont have good polish think it will stand more not on 2nd portion,

2nd portion run plumper right down before Crossy could get away + used more steam (no flame) opposite) without a break. Didnt Crinkle - fds are shiny but some are not perfect we put both lots Condemned + not in this box.

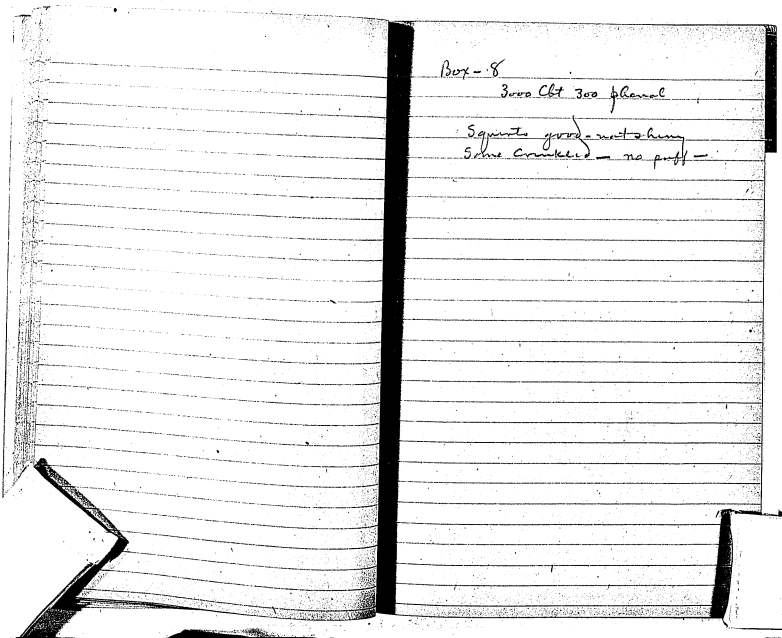
Box 6

3000 & 500 Creosy
not very good -
Mixed with some that
is good & was cleaned by
Ethos - We find our C&T
is not cleaned with Mals
We must now clean some
with Mall & gasoline if
if we are to get good fi

Box 7.

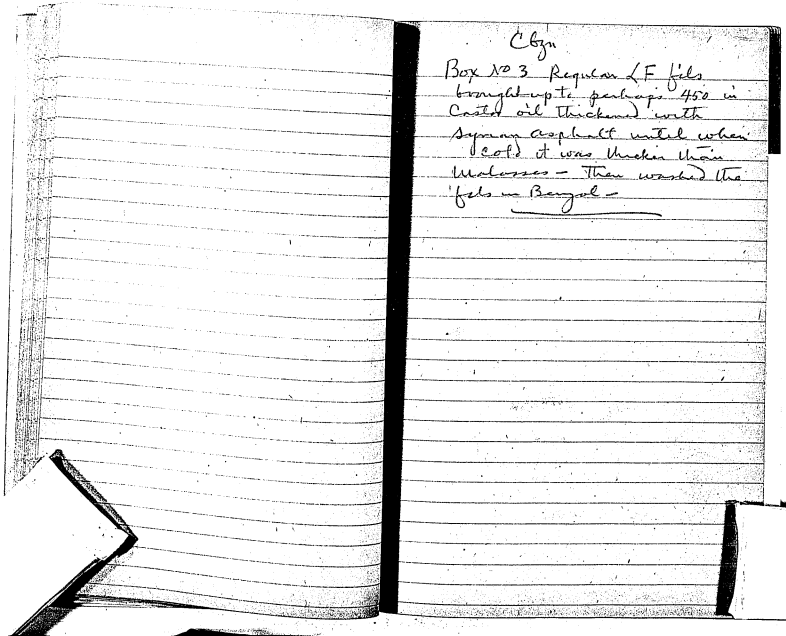
3000 Cbt 400 phenol-
in Ether - .9 cc = 1st part used unmixed, dip
only boiling water around pans no
flame only partially shiny
but perfect, no puffs - Liquid fill
separate perfect, fill not higher
than die - not crumbled

2nd part also in this box
was dried 10 minutes in oven 1½
drives off all volatile stuff &
solidifies silver mesh work -
Separate perfect, but slight
Cordy puffs & crumbled
too mushy heat, if less would
not shiny & as it was
fills nice & full but perfect,
surface = 1st Lithey Combings in
sound best of all yet tried
edges no edge, dont puff
& are Xtra good over all others
yet Tried -


Box - 8
3000 Cbt 300 pheneol
Squints good - watching
Shoe Cracked - no puff -

Carbzn

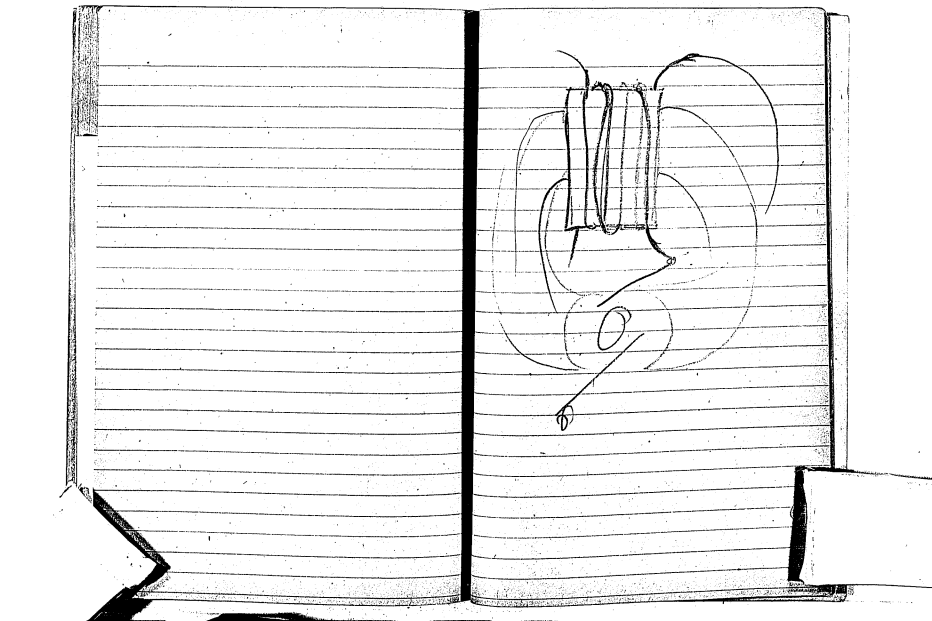
Box NO 1 & 2 contain fds of 3000 Cbt & Cmy various kinds Clyd in Castle and at 550 Dent Church they will amount to muchly in Clyn in all they swell & Elongate & break & may get from out of them - We washed them in hot Benzol —


C Bgn

Box No 3 Regular LF fels brought up to perhaps 450 in Castor oil thickened with Separan Asphalt until when cool it was thicker than Molasses - Then washed the fels in Benzol -

Cbzn

Box 4 are 3 lots of film I made with Cbt pumped Cy Mak, afterwards pumping fairly well by ether, then used 3rd way phenol — Ether, ground very fine 4 days (2nd longer phenol dry) then with slight warmth on body 2 1/2 — warm squeeze 2 1/2 squeezed without any pressure squeeze perfect. Will try these to see how they come out by plain Carbon



Index.

page

No 1 Sulphate of Magnesia 1
" 2 " " Iron. 1
" 3 acetate of Lead. 1
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" 5
" 6
" 7
" 8
" 9
" 10
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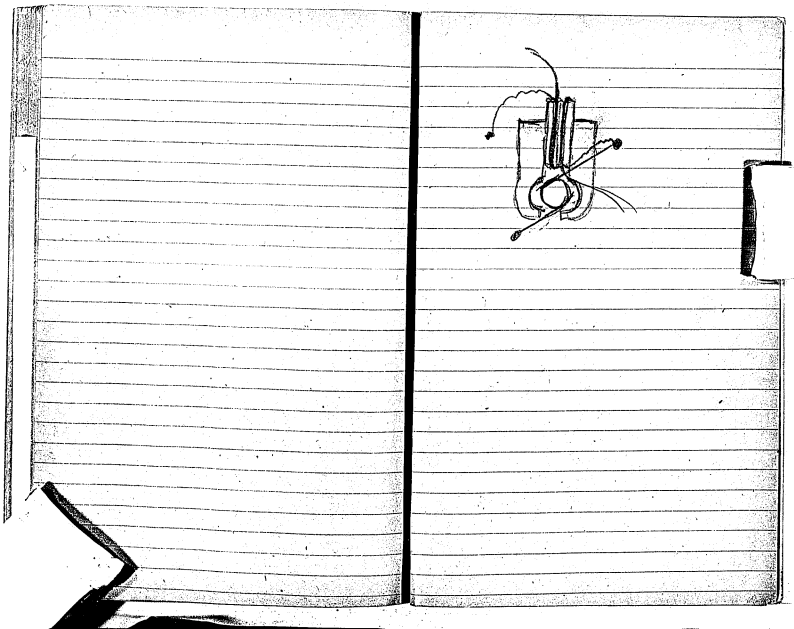
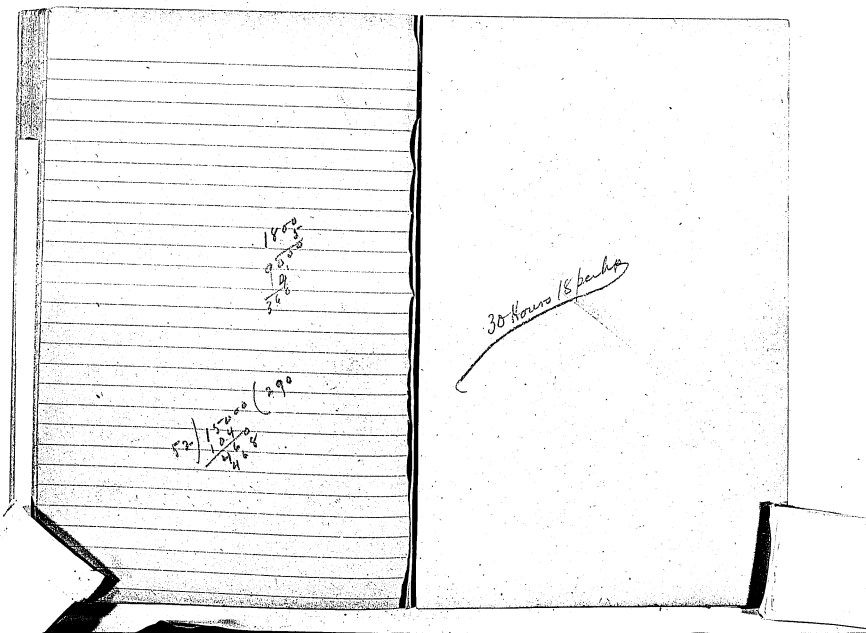
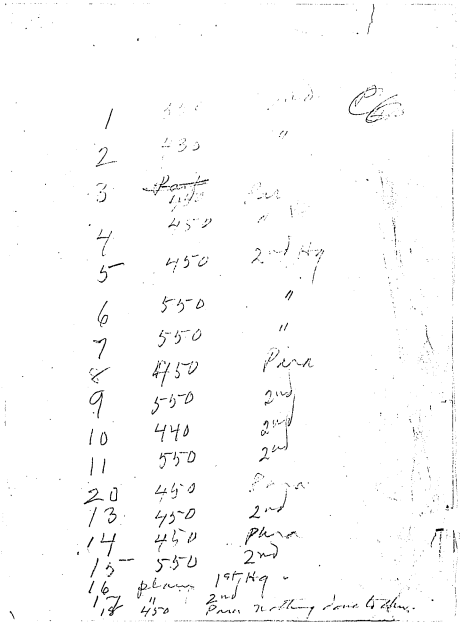



30 Hours 18 beads

[ITEM FOUND IN BOOK]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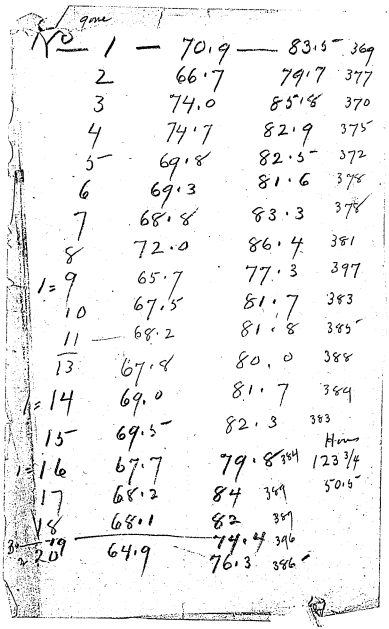
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